

NORYL GTX™ GTX985 resin

Polyphenylene Ether + PS + Nylon

SABIC Innovative Plastics Europe

Message:

NORYL GTX985 is a 18% mineral filled material. This material combines high stiffness and excellent temperature resistance with conductivity for electrostatic painting.

General Information			
Filler / Reinforcement	Mineral filler, 18% filler by weight		
Features	Conductivity		
	Rigidity, high		
	Sprayable		
	Heat resistance, high		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.25	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (280°C/5.0 kg)	16	g/10 min	ASTM D1238
Melt Volume-Flow Rate (MVR) (280°C/5.0 kg)	15.0	cm ³ /10min	ISO 1133
Molding Shrinkage - Flow (3.20 mm)	1.1	%	Internal method
Water Absorption (Equilibrium, 23°C, 50% RH)	1.1	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	60.0	MPa	ASTM D638
--	4400	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	65.0	MPa	ASTM D638
Yield	65.0	MPa	ISO 527-2/5
Fracture ³	60.0	MPa	ASTM D638
Fracture	60.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	4.0	%	ASTM D638
Yield	4.0	%	ISO 527-2/5
Fracture ⁵	7.0	%	ASTM D638
Fracture	7.0	%	ISO 527-2/5
Flexural Modulus			
50.0mm span ⁶	4200	MPa	ASTM D790
-- ⁷	4350	MPa	ISO 178
Flexural Stress			

--	105	MPa	ISO 178
Yield, 50.0mm span ⁸	110	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹ (23°C)	4.0	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
-30°C	40	J/m	ASTM D256
23°C	45	J/m	ASTM D256
-30°C ¹⁰	4.0	kJ/m ²	ISO 180/1A
23°C ¹¹	4.5	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ¹²			ISO 180/1U
-30°C	55	kJ/m ²	ISO 180/1U
23°C	60	kJ/m ²	ISO 180/1U
Instrumented Dart Impact (23°C, Total Energy)	10.0	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	200	°C	ASTM D648
0.45 MPa, unannealed, 64.0mm span ¹³	205	°C	ISO 75-2/Bf
Vicat Softening Temperature			
--	195	°C	ASTM D1525, ISO 306/B50 ¹¹ ¹⁴
--	200	°C	ISO 306/B120
Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 60°C	6.0E-5	cm/cm/°C	ISO 11359-2
Lateral: 23 to 60°C	6.5E-5	cm/cm/°C	ISO 11359-2
Injection	Nominal Value	Unit	
Drying Temperature	100 - 110	°C	
Drying Time	2.0 - 3.0	hr	
Suggested Max Moisture	0.020	%	
Hopper Temperature	80.0 - 100	°C	
Rear Temperature	260 - 280	°C	
Middle Temperature	280 - 300	°C	
Front Temperature	300 - 320	°C	
Nozzle Temperature	280 - 300	°C	
Processing (Melt) Temp	300 - 320	°C	
Mold Temperature	100 - 120	°C	
NOTE			
1.	5.0 mm/min		
2.	Type 1, 5.0 mm/min		
3.	Type 1, 5.0 mm/min		
4.	Type 1, 5.0 mm/min		
5.	Type 1, 5.0 mm/min		
6.	1.3 mm/min		

7.	2.0 mm/min
8.	1.3 mm/min
9.	80*10*4 sp=62mm
10.	80*10*4
11.	80*10*4
12.	80*10*3
13.	80*10*4 mm
14.	标准 B (120°C/h), 载荷2 (50N)

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

